

## EIM Help – Suspended Particulate Matter (SPM) Collected by In-Line Filtration System

Version 1.1  
January 2009

Samples of suspended particulate matter in the water column are collected by pumping water through a filtration system using a pump and an in-line filter unit that is attached to the outflow tubing of the pump. The filter unit is then sent to the lab for chemical analysis of the sediment. The lab results are what we enter into EIM.

Occasionally, samples of the filtered water are also collected in order to assess sampling efficiency. The SPM water (out) data can be entered into EIM as described below. The volume of water is often also measured but is not entered into EIM, as it is available in the report.

Final SPM sample results can be calculated by dividing the concentration on the filter by either the dry weight of the adhered filter material or the filtrate volume. We do not enter these calculated values into EIM.

Type of Sample	Matrix	Source	Sample Fraction
SPM sediment (from freshwater)	Solid/Sediment	Fresh/Surface Water	Suspended
*SPM sediment (from stormwater)	Solid/Sediment	Stormwater	Suspended
SPM sediment (from marine water)	Solid/Sediment	Salt/Marine Water	Suspended
SPM water (out)	Water	(use appropriate source above for your study)	Dissolved

In addition to the standard required fields, the following fields and associated values will be required when entering Sediment Trap SPM data into EIM:

### **REQUIRED fields and values for SPM collected by in-line filtration systems**

Field Activity Start Date (F)

Field Activity End Date (H)

Field Activity Start Time (G)

Field Activity End Time (I)

Sample Composite Sample (V) sediment trap samples will always be "Y"

Sample Method Code (AB) "SED-INLINE" (definition "sediment collected by in-line filtration")

Result Method Code (BH) Enter the method that the lab used to analyze the sample

Sample Matrix, Sample Source, and Result Sample Fraction (W, X, BE) *see chart above*

Suggested to also include a Field Activity Comment (J):

SPM collected using an in-line filtration system

SPM collected at in-line filtration system outlet

\* See Stormwater Data Entry Business rule for information on entering stormwater locations